

Abstract of the Disclosure

An alloy type thermal fuse of an operating temperature of 75 to 120°C is provided in which a fuse element of a Bi-In-Sn alloy is used, excellent aging and heat cycle resistances for a long term can be ensured, and satisfactory operating characteristic can be ensured.

A material for a thermal fuse element has an alloy composition in which In is 15% or larger and smaller than 37%, Sn is 5% or larger and 28% or smaller, and balance Bi, and in which, with respect to each of reference points of ternary Bi-In-Sn eutectic points of 57.5%Bi-25.2%In-17.3%Sn and 54.0%Bi-29.7%In-16.3%Sn, a range of $\pm 2\%$ Bi, $\pm 1\%$ In, and $\pm 1\%$ Sn is excluded.